

ABSTRACT

High temperature resistant materials, one including between approximately 45 and 55 dry weight percent of high temperature resistant Silica fibers, and the other including between approximately 50 and 60 dry weight percent of magnesium silicate, that have improved physical properties, such as being capable of withstanding temperatures in excess of 2,000 °F, effective sealing, and being sufficiently resiliently compressible for cushioning a monolithic catalyst structure against breakage due to external physical shocks.